

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace Table 1 starting at page 106, with the following rewritten Table 1:

**TABLE 1****Open Reading Frames**

Gene Name	ID#na	ID#aa	FL/Cat	Superfamily	Group	Family	NA_length	ORF Start	ORF End	ORF Length	AA_length
SGP057	1	6	Cat	Tyrosine Phosphatase	cPTP	SHP	1026	1	1026	1026	342
SGP061	2	7	FLv FL	Dual Phosphatase	DSP	MKP	800	195	800	606	201
SGP050	3	8	FLv FL	Serine Phosphatase	STP	PP2C	1380	1	1380	1380	459
SGP045	4	9	FLv FL	Serine Phosphatase	STP	PP2C	1164	1	1164	1164	387
SGP036	5	10	Cat	Serine Phosphatase	STP	PP2C	429	1	429	429	143

Please replace Table 2 starting at page 108, with the following rewritten Table 2:

**TABLE 2****CHR, SNPs, dbEST, Repeats**

Gene Name	ID#na	ID#aa	FL/Cat	Superfamily	Group	Family	Chromosome	SNPs	dbEST_hits	Repeats
SGP057	1	6	Cat	Tyrosine Phosphatase	cPTP	SHP	CHR 1	None	BF035622	none
SGP061	2	7	FLv FL	Dual Phosphatase	DSP	MKP	11p11.1	None	BG724198, BG722187, BG722114	none
SGP050	3	8	FLv FL	Serine Phosphatase	STP	PP2C	3p21.1	None	AW960759, AA292266, BF059521	398 ccatcttgctgccaacacc 417
SGP045	4	9	FLv FL	Serine Phosphatase	STP	PP2C	19q13.3	None	BF507423, BG494418, BG196688	none
SGP036	5	10	Cat	Serine Phosphatase	STP	PP2C	4q24	None	AW274850	none

Please replace Table 3 starting at page 110, with the following rewritten Table 3:

**TABLE 3****Phosphatase Domains**

Gene Name	ID#na	ID#aa	FL/Cat	Domain	Phos_start	Phos_end	Profile_start	Profile_end	Other Domains	SH2 Boundaries
SGP057	1	6	Cat	PTP	265	340	1	90	SH2 (2 partial domains)	1) Amino acid 2 to amino acid 42; & 2) Amino acid 108 to amino acid 167
SGP061	2	7	FLv FL	DSP	37	185	1	172	none	
SGP050	3	8	FLv FL	PP2C	187	415	80	286	none	
SGP045	4	9	FLv FL	PP2C	22	276	1	301	none	
SGP036	5	10	Cat	PP2C	1	143	136	301	none	

Please replace Table 4 starting at page 112, with the following rewritten Table 4:

**TABLE 4**

Smith Waterman

Gene Name	ID#na	ID#aa	FL/Cat	Family	Pscore	aa_length	aa_ID_match	Identity	Similarity	ACC#_nraa_match	Description
SGP057	1	6	Cat	Tyrosine Phosphatase	1.50E-56	342	159	43	56	NP 037220.1	SH-PTP2, non-receptor type 11 [Rattus norvegicus]
SGP061	2	7	FLv FL	Dual Phosphatase	5.50E-109	201	163	84	93	BAB29504.1	(AK014691) putative [Mus musculus]
SGP050	3	8	FLv FL	Serine Phosphatase	1.40E-234	459	401	88	94	BAB28679.1	(AK013149) putative [Mus musculus]
SGP045	4	9	FLv FL	Serine Phosphatase	1.70E-74	387	165	45	62	P35815	PP2C-beta (IA) (PP1B) [Rattus norvegicus]
SGP036	5	10	Cat	Serine Phosphatase	2.70E-10	143	39	38	59	NP 067689.1	Circadian Oscillatory Protein (SCOP) [Rattus norvegicus]